Please amend Claims 1 - 3 as follows:

B2 Subc/ 1. (Amended) A cement slurry intended to be set in a wellbore through at least one geologic formation having a certain permeability, characterized in that it comprises cement, at least one mineral filler consisting of silica with grain size ranges between 5 and 200 μm, water and a determined amount of at least one polymer with hydrophilic (Hy) and hydrophobic (Hb) units in aqueous solution, said polymer having the following structure: —(Hb)—(Hy)—— with a statistical distribution, and:

Hy has the following form:

where R5 is or CH3, and Z1 is CQOH or CONH2 or CONHR1SO3, or CONHR"I, R"I is CH3;

Hb has the following form:

where R'5 is H or CH3 and Z2 is COOR7, C&H4SO3H, COOR'1, CONR1R'1 or CONR1R7, R7 being a non-ionic surfactant consisting of an alkyl polyoxyethylene chain, R1 is H or a C1-C30 alkyl, aryl or alkyl-aryl radical, and R'1 is a C9-C30 alkyl, aryl or alkyl-aryl radical,

wherein said polymer has a molecular mass ranging between 500000 and 10⁷ daltons.

- By unt.
- 2. (Amended) A slurry as claimed in claim 1, wherein said polymer has a proportion of hydrophobic units Hb ranging between 0.5 and 60 %.
- (Twice Amended) A slurry as claimed in Claim 1, comprising at least one of the polymers selected from the group consisting of:
 - HMPAM, where R5 is H and Z1 is CONH2, R'5=CH3 and Z2 is COOR'l with R'1=C9H19,
 - S1, S2 where R5 is N and Z1 is CONH2, R'5=H and Z2 is C6H4SO3H.

Please add the following new Claims 8 - 10:

- geologic formation having a certain permeability, characterized in that it comprises cement, at least one mineral filler, water and a determined amount of at least one polymer with hydrophilic (Hy) and hydrophobic (Hb) units in aqueous solution, said polymer having the following structure: —(Hb)—-(Hy)—— with a statistical distribution, and:
 - Hy has the following form:

where R5 is H or CH3, and Z1 is COOH or CONH2 or CONHR1SO3, or CONHR"I, R"I is CH3;

Hb has the following form:

$$\frac{R^{5}}{2uh^{2}}$$

$$-CH2-C=$$

$$Z2$$

B3,

where R'5 is H or CH3 and Z2 is COOR7, C6H4SO3H, COOR'1, CONR1R'1 or CONR1R7, R7 being a non-ionic surfactant consisting of an alkyl polyoxyethylene chain, R1 is H or a C1-C30 alkyl, aryl or alkyl-aryl radical, and R' 1 is a Cl-C30 alkyl, aryl or alkyl-aryl radical,

wherein the mineral filler consists of silica whose grain size ranges between 5 and 200 μ m and microsilica whose grain size ranges between 0.1 and 20 μ m and a small water content of 30 cc for 144 g of solids (cement, silica and microsilica).

- 9. A slurry as claimed in Claim 8, wherein the polymer is Hbl where R5 is H, Z1 is COOH, R'5 is H and Z2 is COOR'1 with R'l being C4, comprising about 80% of (hy) units, and of molecular mass ranging between 10⁴ and 5·10⁴.
- 10. A slurry as claimed in claim 9, wherein said polymer is Hb1 at a concentration ranging between 0.5 and 5 % by weight.--